

CLAIMS

1. A method for manufacturing a mold tool (1), adapted to be used for forming a structured nano scale pattern on an object (24) and having a layer (16),
5 which is anti-adhesive with regard to the object (24), **characterised by** the steps of providing a stamp blank (2) with a structured pattern (4) on a surface (8),
depositing a layer (6) of a metal on the patterned surface (8), said metal having a stable oxidation number and being capable of forming a mechanically stable oxide film,
10 oxidising the layer (6) of metal to form an oxide film (10), and applying at least one reagent on the oxide film (10), said reagent comprising molecule chains (18), each having a linkage group (20), which is chemically bonded, preferably by a covalent bond, with the oxide film (10), wherein the molecule chains (18) either from the beginning comprise at least one group (22)
15 comprising fluorine, or are provided with at least one such group (22) in a subsequent treatment.

2. The method according to claim 1, wherein said metal is chosen from titanium, zirconium, niobium, tantalum and aluminium, and mixtures thereof.
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3. The method according to claim 1 or 2, wherein said linkage group (20) is chosen among silane groups, phosphate groups and carboxylic groups.

4. The method according to any of the above claims 1-3, wherein the metal is furnished to the pattern equipped surface (8) in an evaporated form.
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5. The method according to any of the above claims, wherein the layer (6) of metal is oxidised by bringing it in contact with a gas comprising oxygen, such as surrounding air, filtered surrounding air, or a synthetical gas mixture comprising oxygen.
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6. The method according to any of claims 1-5, wherein the patterned surface (8) is coated with a layer (6) of metal with a thickness (HT) of 1-300 nm, preferably 1-100 nm.
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7. A mold tool adapted to be used for forming a structured nano scale pattern on an object (24) and having a layer (16), which is anti-adhesive with regard to the object (24), **characterised in** that the mold tool (1) comprises a stamp blank (2), having a structured pattern on its surface (8), and a layer (6) of a metal, having a

stable oxidation number and being capable of forming a mechanically stable oxide film, which layer (6) of metal has been applied on said surface (8) and thereafter brought to oxidise to form a mechanically stable oxide film (10), wherein the anti-adhesive layer (16) comprises molecule chains (18), each having at least one

5 linkage group (20), which by chemical bonding, preferably by a covalent bond, are bonded with the oxide film (10), and at least one group (22) comprising fluorine.

8. The mold tool according to claim 7, wherein said layer (6) of metal has a thickness (HT) of 1-300 nm, preferably 1-100 nm.

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9. The mold tool according to claim 7 or 8, wherein said stamp blank (2) comprises a metal and/or silicone.

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10. The mold tool according to claim 9, wherein said stamp blank is a nicellic stamp blank (2).

11. The mold tool according to any of claims 7-10, wherein said layer (6) of metal is an aluminium, zirconium, tantalum, niobium or titanium layer.

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12. A storage medium, such as a CD or DVD or a hard disc, **characterised in** that a mold tool (1) according to any of claims 7-11 has been used for forming a structured pattern on the medium (24).